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> Basic Requirements EMC Directive 2004/108/EC

>Chapter 1: Protection requirments

Equipment shall be so designed and manufctured, having regard to the state of the art, so as to ensure that:

a) the electromagnetic disturbance generated does not exceed the level above which radio and telecommunications equipment or other equipment cannot operate as intended; => **Emission**

b) it has a level of immunity to the electromagnetic distrubance to be expected in its intended use, which allows it to operate without unacceptable degradation of its intended use. => Immunity

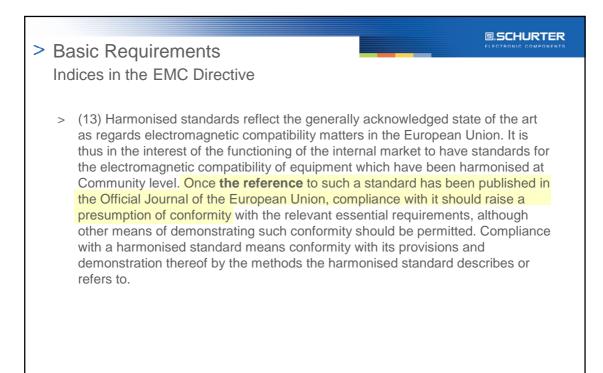
> Basic Requirements EMC Directive 2004/108/EC

>Article 13: Fixed installations

(2) Where there are indications of non-compliance of the fixed installation, in particular where there are complaints about disturbances being generated by the installation, the competent authorities of the Member State concerned may request evidence of compliance of the fixed installation and, when appropriate, initiate an assessment.

If it is ascertained that a fixed installation does not fulfil the requirements, the competent authorities can issue an injunction for the taking of suitable measures to ensure conformity with the protection requirements of Appendix 1 Chapter 1 *(Slide no. 5).*

- > Basic Requirements EMC Directive vs. Machines Directive
 - >EMC is to be taken into consideration with the safety and security of machines.
 - >EMC product requirements are legally binding and defined in the EMC directive.
 - >EMC requirements can also be found in other directives, e.g., in the machines directive.

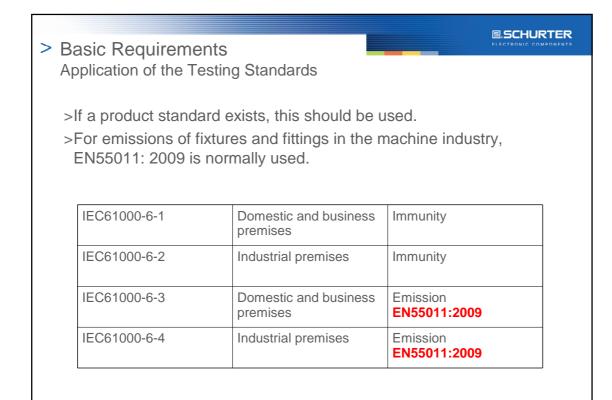


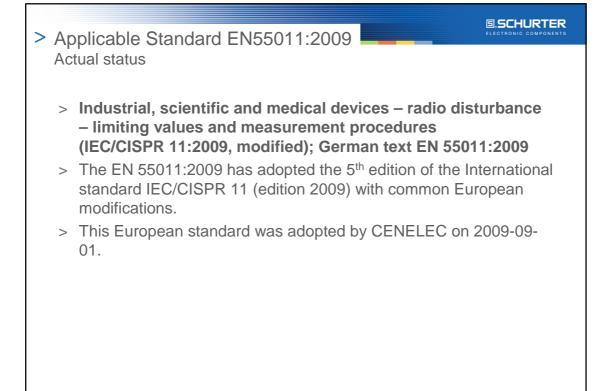
> Basi	c Requirements		SCHURTER
	ig in the Official European Journal		
	(Publication des titres et des références des normes harmo	nisées au titre de la directive)	
	(2010/C 306/01)		
OEN (1)	Référence et titre de la norme harmonisée (et document de référence)	Référence de la norme remplacée	Date de cessation de la présomption de conformité de la norme remplacée Note 1
CEN	EN 617:2001 Equipements et systèmes de manutention continue - Prescriptions de sécurité et de CEM pour les équipements de stockage des produits en vrac en silos, soutes, réservoirs et trémies		
	the reference		

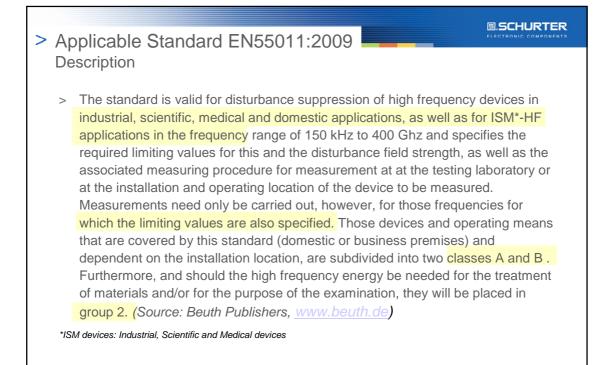


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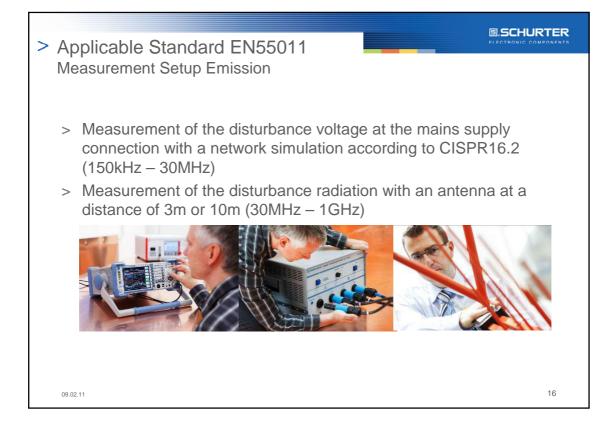
> Basic Requirements Application of the Testing Standards >The manufacturer is responsible for knowing and applying the standards necessary for his system . >Should there be no product standards available for the conformity part, the following generic standards are to be used : IEC61000-6-1 Domestic and business Immunity premises IEC61000-6-2 Industrial premises Immunity IEC61000-6-3 Domestic and business Emission premises IEC61000-6-4 Industrial premises Emission





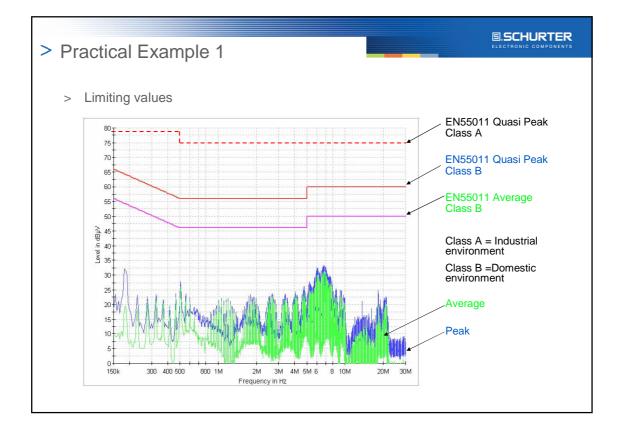


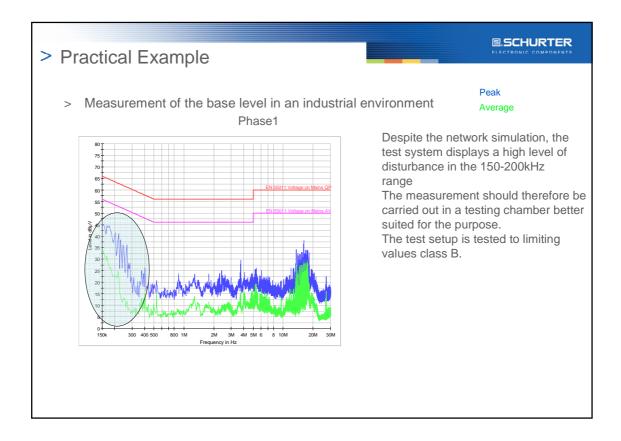
	able Standard EN cation of ISM Device		ELECTRONIC COMPONENT
	Group 1 all other ISM devices		ISM devices with HF nergy 9kHz – 400GHz
Class A	Industry Example: Machine tool controls	Industry Example: El. Welding Erosion ma	
Class B	Domestic / office pre Example: Laboratory equipment Medical-scientific equipment	mises Domestic , Examples: Microwave Induction c Dielectric h Medical eq with HF ap	ookers neaters uipment

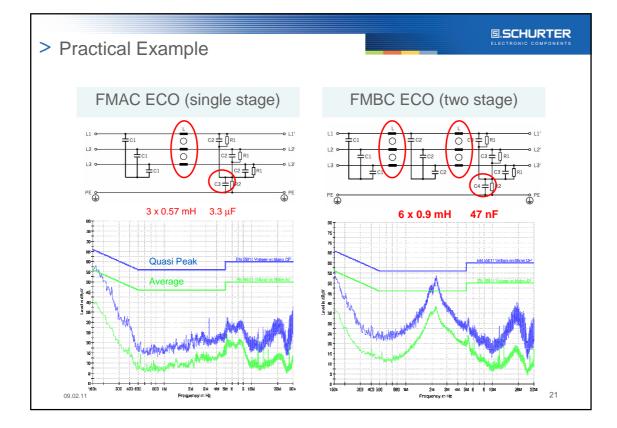














> Contact

SCHURTER AG Marcel Reiter, Project EMC Tel: 079 223 62 01 marcel.reiter@schurter.ch





